

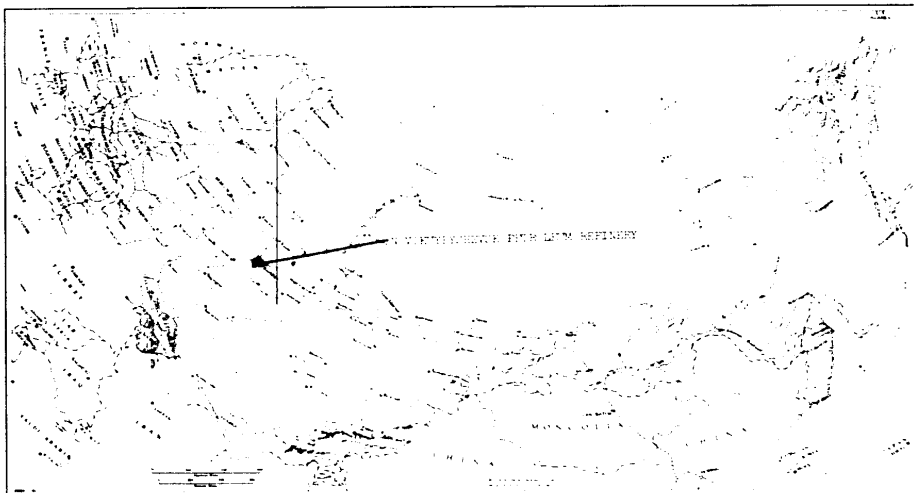
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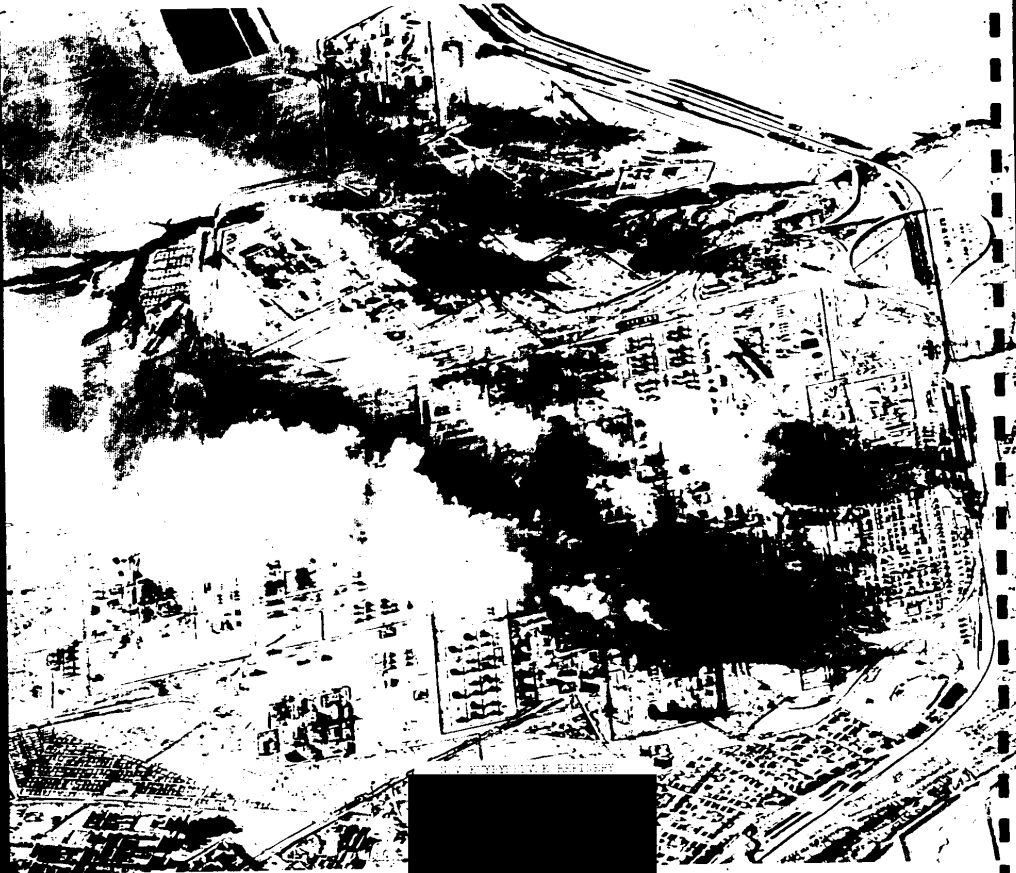
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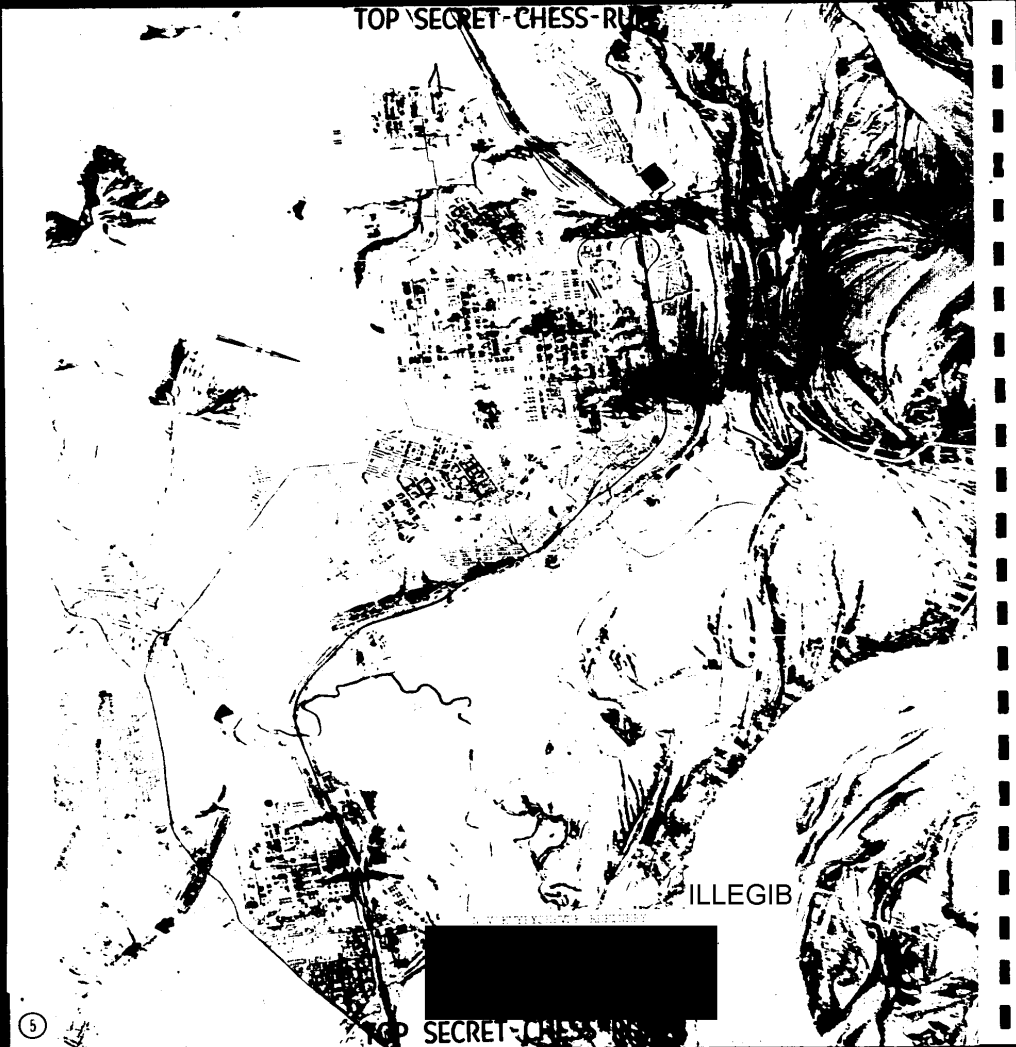
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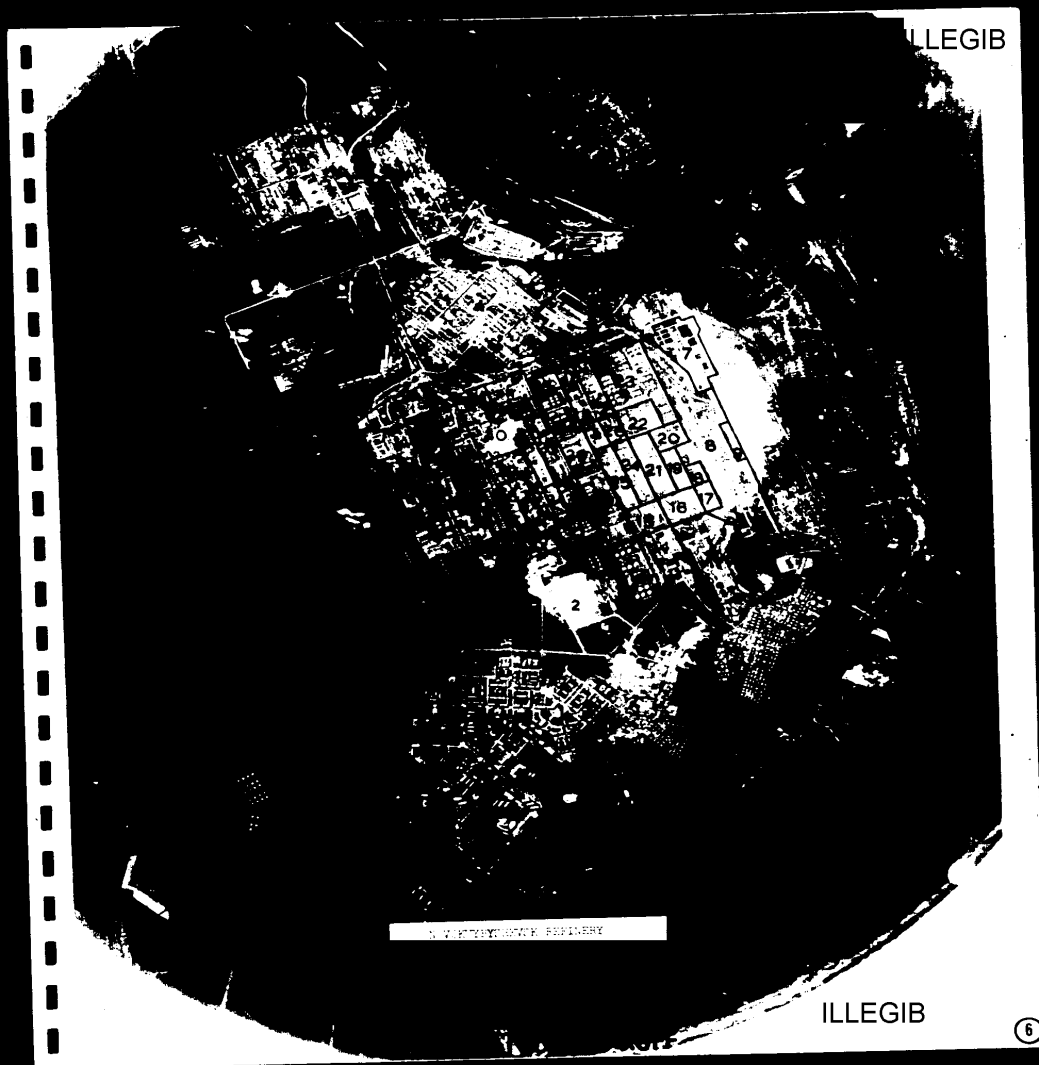
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TCS No. 1164/65  
IB No. 5/65  
11 January 1965  
Copy No. 1

MEMORANDUM FOR: Chief, Resources Division, ORR

25X1AATTENTION

THROUGH : Chief, Requirements Branch, Reconnaissance Group, CGS  
FROM : Chief, Photographic Intelligence Division, CIA  
SUBJECT : Novokuybyshevsk Petroleum Refinery, USSR  
REFERENCES : (1) ORR Requirement No. C-RR4-81,232  
(2) CIA/PID Project No. 30297-4

1. This memorandum is forwarded in answer to the above mentioned requirement, which requested an analysis and a comparative study of the Novokuybyshevsk refinery located near Kuybyshev, USSR.

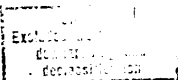
2. Information, as requested, concerning this refinery, is as follows:

a. Location - This refinery is located at Novo-Kuybyshevsk, approximately 8 nautical miles west-southwest from the city of Kuybyshev. The geographic coordinates of the approximate center of this site are 53 05 50N - 49 54 15E (See Figures 1 and 2).

b. Areal Extent - The refinery area is basically rectangular in shape measuring approximately 6,600 feet by 11,000 feet and is oriented NNW/SSE. The approximate total area within the refinery, which is mostly fence enclosed, is 66,600,000 square feet or 2.4 square miles.

25X1D c. Construction Status - From examination of coverage over this site between [REDACTED] it is apparent that construction activity at this refinery and on associated plants has been proceeding at a rapid pace. Several units have been completed and additional construction is presently underway. There is additional room within and adjacent to the Novokuybyshevsk refinery for further expansion. Additions to the refinery during the period of photographic coverage, [REDACTED] are listed in section four of this memorandum and are annotated by letters, rather than numbers, on the overlay.

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SUBJECT: Novokuybyshevsk Petroleum Refinery, USSR

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d. Photography - All available photographic coverage was utilized in this study. For purposes of comparison and because of photographic quality materials from [REDACTED] missions are included in this memorandum. These photographs are from Missions [REDACTED]

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[REDACTED] (See Figures 3-6).  
Details concerning the identification of refinery components are given in the following section.

3. The overlay accompanying Figure 7 outlines the refinery area and various sections within the refinery.

a. Plant analysis of the refinery is presented under the number corresponding to that annotation on the overlay. Also annotated are other features in the immediate area. Areas within the refinery annotated by letters instead of numbers are those where major construction has occurred since [REDACTED]. These are analyzed under part b of this section. However, because part of the refinery was obscured by steam on the [REDACTED] it was impossible to enumerate changes which may have taken place in these areas.

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- (1) City of Novo-Kuybyshevsk
- (2) Probable concrete products plant
- (3) Railroad yard and station
- (4) Synthetic alcohol plant
- (5) Possible polyethelene plant
- (6) Flare towers
- (7) Water treatment area with settling basins, probable pumping facilities and several storage tanks.
- (8) Area of shops and warehouses with probable packaging; rail served. West end of area has tank car loading and unloading facilities.
- (9) Cooling towers
- (10) Heat and power plant with three cooling towers (one new since [REDACTED] and other associated facilities.

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TCS No. 1164/65  
Page 3

SUBJECT: Novokuybyshevsk Petroleum Refinery, USSR

- (11) Area of administration buildings
- (12) Five probable desalting units
- (13) Tank farm (probable crude storage)
- (14) Area of shop buildings
- (15) Two possible cracking units
- (16) Four probable crude distillation units
- (17) Probable wax processing building (rail served)
- (18) Two unidentified refining units
- (19) Three probable distillation units
- (20) Area of unidentified refining units
- (21) Tank farm, probable intermediate and final product storage
- (22) Area of distillation units
- (23) Tank farm
- (24) Three cracking units
- (25) Probable gas recovery area and alkylation unit
- (26) Two unidentified refining units
- (27) Area of shop buildings
- (28) Unidentified refining units with distillation towers, furnaces, possible compressor building and associated facilities.
- (29) Tank farm, probable intermediate and final product storage, and liquefied petroleum tanks
- (30) Tank farm, probable crude storage
- (31) Four probable desalting units
- (32) Area of probable shop and maintenance buildings

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SUBJECT: Novokuybyshevsk Petroleum Refinery, USSR

- (33) Water treatment area, with settling or separation ponds, cooling towers, and several small unidentified buildings
- (34) Three probable crude distillation units
- (35) Tank farm, intermediate and final product storage
- (36) Area of shop buildings
- (37) Two refining units, possibly crude distillation
- (38) Three probable cracking units
- (39) Six probable distillation units
- (40) Possible lubricating oil area, with refining units, packaging, and warehousing facilities, and some probable shop buildings; rail served.
- (41) Tank farm, probable intermediate and final product storage
- (42) Large probable distillation unit, with several furnaces, distillation towers, cooling towers and other associated facilities. These units were still under construction in [REDACTED] but appeared to be almost complete at that time.

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- (43) Possible water treatment area with several ponds and possible cooling towers. This area was probably still under construction in [REDACTED]

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- b. Units constructed since coverage of [REDACTED]

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- (a) Two unidentified processing units, started after [REDACTED] and apparently completed by [REDACTED]

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- (b) Suspect paraxylene facility, under construction in [REDACTED] and completed by [REDACTED]
- (c) Unidentified facility with several buildings, two probable furnace stacks and one probable tank under construction in [REDACTED] and appears complete by [REDACTED]
- (d) Tank farm, some present in [REDACTED] remainder constructed at intervals between [REDACTED] and [REDACTED]

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TCS No. 1164/65  
Page 5

SUBJECT: Novokuybyshevsk Petroleum Refinery, USSR

- 25X1D  
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25X1D (e) Possible reforming unit, apparently started by [REDACTED]  
[REDACTED] and complete by [REDACTED] with two large  
unidentified structures in NE corner of area.
- 25X1D  
25X1D (f) Area of unidentified buildings, buildings built in  
stages between [REDACTED]
- 25X1D  
25X1D (g) Unidentified facility under construction
- 25X1D  
25X1D (h) Probable water treatment area built between [REDACTED]  
[REDACTED]
- 25X1D  
25X1D (i) Possible gas fractionation area, with large tower and  
associated facilities, apparently still under construction  
in [REDACTED] but appears complete by [REDACTED]
- (j) Suspect fatty acids plant
- (k) Unidentified process area with several buildings, probable  
distillation tower, and several furnace stacks. Some  
components present on [REDACTED] photography, remainder  
appear complete by [REDACTED]
- 25X1D  
25X1D

4. The Novo-kuybyshevsk refinery is served by road and rail, and  
probably by pipeline. Docking facilities are present on the Volga River  
near Kuybyshev.

5. All measurements have been made by the CIA/PID/IB project analyst.  
They should be considered as approximate and must not be taken as official  
NPIC mensuration data compiled by the Technical Intelligence Division, NPIC.

25X1A 6. The photo analyst assigned to this project was [REDACTED]  
who may be contacted on extension 2547 should any questions arise concerning  
this memorandum. This memorandum and attachments complete this requirement.

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ENCLOSURES:

- 2 Annotated Maps (CIA/PID/IB-P-10/65  
4 Annotated Photos (CIA/PID/IB-P-12/65 thru  
P-14/65 and P-15/65 w/overlay

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